

ABSTRACT

Disclosed is a polymeric reference electrode membrane comprising (a) one selected from a porous polymer or a 5 hydrophilic plasticizer; (b) a lipophilic polymer; and optionally an adhesion-enhancing material. A reference electrode equipped with the polymeric reference electrode membrane can be shortened the preconditioning time, and extended lifetime for storage and use owing to excellent 10 adhesion, and showed reproducibility and good yield. So, a miniaturized multi-potentiometric sensor can be fabricated comprising a solid-state reference electrode of the present invention and a set of ion-selective electrodes, thus being useful in the potentiometric fields, including clinical, 15 environmental, food and industrial analysis.